

TCGACTGGGG CCCCAACGGT GGCCCCGACC TCATCGTCGA CAAAGGGGGT GACGCCACTC 480
TCCTCATCCA CGAAGGCGTC AAGGCTGANG AAGANTACGA AAAAGACCGG CAAGCTGCCC 540
5 GATCCGGCCT CCACGGAAAA CGCCGAATTC CAAATCGTGC TGGGGATTAT CCGCNANCGG 600
CTCCAGGTCN AACCCCNAAA ATTACGCCCC AGATNAAAGA ACCCTCCTCC GCTTTTGTAA 660
GAAAACANCN CTGGCGTTCA NCGAATCTAC CANATGCCAG GGCCANCNGG GGCCCCCTGC 720
10 TTCTTCCCC CNCCCANTC NAACNTTCCN ACGAATTCCC GTTTTACCN AAAACCAAN 780
TTTTGAACAA CCT 793

(2) INFORMATION FOR SEQ ID NO: 10:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 847 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:
(B) CLONE: U-U32

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CGGCACGAGG CGACGCCGGC CTTGCGCTCC GCGTCTCCCT CCACCTCCAC TGCCACCGCC 60
GCCCTCGCCT CCCCCTCCCC AAATCGGTG ACTCCGCCGC CGCTACAGAC CCCGACATCC 120
TATTTACTGA CCGCGCCGGC CGCCGCGGTG CCGACTGCCT CTCCTTCGCT GTCGACGACC 180
TCCCTGTCTT CGACGGCAGG ACCCCGATGG AAGCCTACGA GGAGTTCTTC CGGAGCTTCC 240
GCCTCGCCTT CGCTGACTTC TTTGTTCCG TCATTACGGA TATCACGATC GGTCTCGGGC 300
CAAATGGCGA GCTCCGTTAC CCTTCGTTTC CTCCACTGG AAGCAATCGT TTCACCGGTG 360
45 TAGGAGAATT CCAGTGTTAT GACAAATACA TGCTTGCCGA TCTCAAACGA CACGCGGAGG 420
AAACCGGCAG CCCATTATGG GGCCTCTCTG GTCCTCACGA TGCCCCGTTG TACAACCACT 480
CTCCGACTT CGGCAACTTT TTCAAGGACC ATGGCGGCTC CTGGGANACA CCCTACGGGC 540
AATTCTTCCT CTCCTGGTAC ACCGGCAAGC TCCTGTCTCA CCGTGACGGC CTGCTCTCGG 600
TCGCGTCAGA AGTATTGGTG ATTTGCCTGT CGCGCTCTCG GGCAAGGTTT CACTTTCTGC 660
55 ATTTGTTGGC AACGAACTC GGTGCGCCCC GTCTTANCTT GAAGGCCGGG TTCTNTNACA 720
CTTGACGGNA NAANAACNGG TTTCAAGGAT GTTGGCTAAN ATCTCCCGAA ANCTCCTGC 780
ANCATGATTC ATCCCGGGCN TGGACTTCTC NGAAGGGGAA CANTCCTCAG GGTGTTCGG 840
60 TCTGCCC 847

(2) INFORMATION FOR SEQ ID NO: 11:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 822 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-U55

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

10 GGCACGAGGC ATGGAGAACC CTGTTGCGAT GGGCATCATG GAGGAGCTTG AGGCCCAGAG 60
CGAGGTGTGG AACCACATTT TTAGATTCAT CACCTCCATG TCCGTCAAGT GCGCGGTGGA 120
15 GCTCAGGGTC CCCGACGCCA TCCACGCCCA CGGCGGCAAC GCAACTCTCC CTCAGCTGGC 180
CGCCGCCCTC AGCCTCCCTC CCGCCAAGCT CGCCGACCTC CGACGCCTCA TGCGCATGCT 240
GGTCCACGCC GGCTGCTTCG CCAAGCAGGA AGACNACGTG TACGCCCTCA CGCCATGGTC 300
20 GAGGCTCCTG NTGAGCTCCG AGCACACCGC GGTAGCCCCG TTCGTGGTGT GGATGCTCCA 360
CCCGTTCATG GTGCAGTCGT GGCACCTCGCT GGGGGCGTGG TTCCACGGGA GGGCGCCAC 420
25 CCCCTTCGCC GCAACCCACG GGAAAGGGGA TCTTCGAGAC NACACNCNAA CAGCCGGGGT 480
TCGCGGCCGT TCTTCANCNA NGCNATGGCG AACGACTGTC GGCTGGTGGG AAAGGTGTTG 540
GTAAANAACA TNCGGATGTG TTGGANGGAN CNCNGGTCCA TNGTGGAAGT TGGTGGCGCA 600
30 CCGGCACCCT TTTNGGCCAT TGTTGGCCGA AGGCTTTCCC GCCAACATNA AATNGCACCG 660
TTCTCCNANT TTGCCCCACT TTTCTGGCCN CNGCCGCCGG GGGCCCN CN NACCNAACA 720
35 ACTTGATGT TTTTNGGGG AANACATNTT CCAACATTTT ACANCCGCNC GACNTTTTTT 780
ACNCAATTGG TTCCNGGCNC NAATGGAAAT ANTCTGNAT TT 822

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 743 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-U72

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

55 GGCACGAAGA GCCCTGTACC GGANAGCATG GAGAACCCTG TTGCGGTGGG CATCATGGAG 60
GAGCTTGAGG CCCAGAGCGA GGTGTGGAAC CACATTTTTA GATTCATCAC CTCCATGTCC 120
60 GTCAAGTGCG CGGTGGAGCT CAGGGTCCCC GACGCCATCC ACGCCACGG CGGCAACGCA 180
ACTCTCCCTC AGCTGGCCGC CGCCGTCAGC CTCCCTCCCG CCAAGCTCGC CGACCTCCGA 240
CGCCTCATGC GCATGCTGGT CCACGCCGGC TGCTTACCA AGCAGGAANA CNACGTGTNC 300
65 GCCCTCACGC CATGGTCGAN GCTCCTGGTG AGCTCCGANC ACACCTCGGT GGCCCCGTTC 360
GTGGTGTGGA TGCTCCACCC GCTCATGGTC CAGTCGTGGC ACTCNCTGGG GGC GTGGTTC 420
70 CACGGGAAGG GCGCCACNC CCTTCNCNC NACCCNCGGG AAGGGGATCT TCCANACGAC 480

ACNCGAACAT CCGGGGTTTCG CGGGCGTCTT CAACTANGCG ATGGCGAACG ACTGTCNGCT 540
GGTGGGAAAN GTNTTGGTAA AAAAACCTTC CGGAAGTGTT NGANGGAACC CCGTCCAATN 600
5 GTGGAANTTG GTGGCNGCCG GCACCCTTNC GGGCNATCGT TGTCGAAGNC CTTCCCNAC 660
NTTANATTNC ACCGTCCTCC AATTNTCCCC ANTTTCTTTN GCCGCNGGNN NCGGGCCCCN 720
GGTNANCCNA AANCNTTNT TTT 743

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 806 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-U68

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

TGTTCTCTCC TTCGATCACA TCTTTTGTCT CTGGGAAACG TGAGAGGTGA GACGAGGGCG 60
GCAATGACGG CGGGTTTAAG ATGGATTCTT CCTCTGCTTC TTCTTCTTCT GGGCTTCCTG 120
CTGGTTTTGA ACGGAGGTCG GGGGTGGATT GGAAGCGAGA GGTCTCTGCT CTCGAGGAAT 180
35 GGCGGAGCAT CGCGGAGGAG CTTGAGAGAG GCCTCCGCGA ACGCGACCAG CGCCGATGCT 240
TCCTTGGAAG AGAGGGCTGT AACCCGGGCA GCAGAAGCCG CAGTCGACGA CCCCAGGAG 300
GTTGCTTCGA CGGTCCTGAT GACCATAATC AACAGCACGG CTCGAGATC TCTTGGTTAT 360
40 CTGTCGTGCG GTTCAGGCAA CCCGATCGAC GACTGCTGGC GGTGCGACCC TGATTGGCAT 420
GTCAACAGAA AAAAGCTCGC TGAATGCGGC ATTGGCTTTG GACGCAACGC NATANGTGGC 480
45 CGCGACGGGG AATTGTTCG TTGTGACAGA CTCCGGGGAC NATGATCCCC GTGAATCCTC 540
GCCCGGGAAC ACTTANATAC CCCGTCNTCC AANGAAGTTG CCCCCTCTGG GATCCCCTTT 600
AAACNCNAAN TGGAATCTC NCTCNANGGA AGAACTCNTT ATGAACAGCT TTAANACNAT 660
50 CGATGGACNC NGTGTCTCG TCCACATTGC CAATGGCGCC TGCNTACCA NCCAATTTCN 720
TCCCCAACNT CTTCTTCNT NGCCTCCNCT CCCCATGCA ACCCNCCGGG AATTCCTNGT 780
55 CCCCNTCCC CTTCTCCTAT GGATNG 806

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 687 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
(B) CLONE: U-U69